

CLAIMS

1. A vehicle comprising:
  - a load receiver including a first main surface for receiving
  - 5 a load from a rider;
  - a load detector for detecting the load received by the load receiver;
  - a wheel provided on a side of a second main surface of the load receiver and driven in accordance with the load detected
  - 10 by the load detector;
  - a wheel support provided between the load receiver and the wheel for rotatably supporting the wheel;
  - a first frame provided between the wheel support and the load receiver and connected with the wheel support;
  - 15 a second frame provided between the first frame and the load receiver and fixed to the load receiver; and
  - a connecting member connecting an end region of the first frame with an end region of the second frame, enabling the second frame to pivot with respect to the first frame in directions
  - 20 perpendicular to the first main surface of the load receiver,
  - wherein the load detector is sandwiched by the first frame and the second frame.
2. The vehicle according to Claim 1, wherein the first frame
- 25 and the second frame position the connecting member closer to an outer end of the load receiver than the wheel.

3. The vehicle according to Claim 1, wherein the second frame pivots with respect to the first frame in directions included in a plane which is perpendicular to the first main surface of the load receiver and includes longitudinal directions of the load receiver.
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4. The vehicle according to Claim 1, further comprising an urging member for urging the first frame toward the load receiver.
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5. The vehicle according to Claim 1, wherein the load detector is provided by a strain gauge load cell or an electric capacitance sensor.
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6. The vehicle according to Claim 1, wherein the load detector includes an elastic member and a position sensor for detecting displacement of the elastic member caused by the load.
7. A vehicle comprising:
- 20 a load receiver including a first main surface for receiving a load from a rider;
- a load detector for detecting the load received by the load receiver;
- a wheel provided on a side of a second main surface of the load receiver and driven in accordance with the load detected
- 25 by the load detector;
- a wheel support provided between the load receiver and the wheel for rotatably supporting the wheel;

a first frame provided between the wheel support and the load receiver and connected with the wheel support;

a second frame provided between the first frame and the load receiver and fixed to the load receiver; and

5 a regulating member for regulating a position of the second frame, enabling the second frame to move in load detecting directions with respect to the first frame,

wherein the load detector is sandwiched between the first frame and the second frame.

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8. The vehicle according to one of Claims 1 through 7, wherein the vehicle is provided by an electric skateboard.